

## EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
S1	1	10/706819	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/09/18 09:55
S2	138	hwang-sung-hee.in.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/09/05 10:41
S3	628	ko-jung-wan.in.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/09/05 10:42
S4	404	lee-kyung-geun.in.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/09/05 10:42
S5	19	I and S3 and S4	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/09/05 10:48
S6	229	(369/53.23).CCLS.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/09/07 10:42
S7	121879	(disc or disk or medium) ADJ10 (detect\$3 or discriminat\$3)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/09/05 10:52

## EAST Search History

S8	202	S6 and S7	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/09/05 10:52
S9	88693	(disc or disk or medium) ADJ5 (detect\$3 or discriminat\$3)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/09/05 10:55
S10	188	S6 and S9	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/09/05 10:52
S11	77789	(detect\$3 or discriminat\$3) ADJ5 (disc or disk or medium)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/09/05 10:55
S12	164	S6 and S11	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/09/05 10:55
S13	11	("5721718").URPN.	USPAT	OR	ON	2006/09/07 08:20
S15	77855	(detect\$3 or discriminat\$3) ADJ5 (disc or disk or medium)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/09/07 15:12
S16	11616	S15 and "369".clas.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/09/07 10:31
S17	1094	S16 and (focus SAME (count\$3 step))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/09/07 15:13

## EAST Search History

S18	399	S17 and ((digital ADJ2 analog) or (D adj1 A))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/09/07 10:36
S19	373	S18 and (noise ADJ S14 (level or voltage))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/09/07 10:37
S20	7	S18 and (noise ADJ5 (level or voltage))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/09/07 10:37
S21	614	(369/53.2).CCLS.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/09/07 10:42
S22	331	S15 and S21	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/09/07 10:42
S23	39421	S22 focus SAME (focus SAME (count\$3 step))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/09/07 10:43
S24	70	S22 and (focus SAME (count\$3 step))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/09/07 13:28
S25	15	S22 and (focus SAME (count\$3))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/09/07 11:00

## EAST Search History

S28	45677	(detect\$3 or discriminat\$3) ADJ3 (disc or disk or medium)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/09/18 11:56
S29	25498	((detect\$3 or discriminat\$3) AND (disc or disk or medium)).ti.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/09/07 15:32
S30	210	S29 and (focus SAME (count\$3 step))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/09/07 15:13
S31	93	S29 and (focus SAME (count\$3 or upcount or downcount or upstep or downstep))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/10/03 12:19
S32	2124	((discriminat\$3) AND (disc or disk or medium)).ti.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/09/07 15:32
S33	30	S32 and (focus SAME (count\$3 or upcount or downcount or upstep or downstep))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/09/07 15:33
S34	9	"6058082"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/09/11 10:38
S35	7	"4455816"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/09/12 09:02

## EAST Search History

S36	9	"6058082"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/09/12 09:02
S37	2	("6434096").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/09/13 09:46
S38	2	("7046600").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/09/13 14:21
S39	3	("6901210").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/09/13 14:46
S40	0	(10/640352).CCLS.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/09/13 14:46
S42	3	("6901210").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/09/13 16:13
S44	1	10/706819	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/09/14 09:43
S45	45317	(buffer or register) SAME compar\$4 SAME count\$2	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/09/14 09:49

## EAST Search History

S46	500	S45 and "369".clas.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/09/14 09:49
S47	140	S46 and (focus and track)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/09/14 09:57
S48	1	S47 and (upcount and downcount)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/09/14 09:58
S49	16	S47 and ((up same down) same count)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/09/14 09:59
S50	58	S46 and ((up same down) same count)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/09/18 12:05
S51	2	("5757752").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/09/14 10:04
S53	9	"6058082"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/09/18 09:55
S54	3	("5790493"   "5986985"   "6058082").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2006/09/18 10:01

## EAST Search History

S55	2128	((discriminat\$3) AND (disc or disk or medium)).ti.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/09/19 10:10
S56	192	(((detect\$3 and type) OR (discriminat\$3)) AND (disk or disc or medium)).ti. and "369".clas.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/09/18 14:00
S57	39	S56 and count	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/09/18 12:07
S58	5	("4773052"   "4890273"   "5130967"   "5381392"   "5721718").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2006/09/18 12:27
S59	5	("4773052"   "4890273"   "5130967"   "5381392"   "5721718").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2006/09/18 12:51
S60	9	("5909419").URPN.	USPAT	OR	ON	2006/09/18 14:00
S61	135	S56 and compar\$4	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/09/18 14:01
S62	29	S61 and (up same down)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/09/18 14:01
S63	2	("6434096").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/09/19 08:39
S67	456	(369/44.25).CCLS.	US-PGPUB; USPAT	OR	OFF	2006/09/19 13:08
S68	1030	(369/44.32).CCLS.	US-PGPUB; USPAT	OR	OFF	2006/09/19 13:08
S69	515	(369/44.35).CCLS.	US-PGPUB; USPAT	OR	OFF	2006/09/19 13:08

## EAST Search History

S70	1749	S67 S68 S69	US-PGPUB; USPAT	OR	ON	2006/09/19 13:09
S71	1108183	duty or count\$5 or downcount\$5 or upcount\$5	US-PGPUB; USPAT	OR	ON	2006/09/19 13:10
S72	63028	(track\$5 or focus\$5) near2 (error or signal)	US-PGPUB; USPAT	OR	ON	2006/09/19 13:10
S73	861	S71 same S72 same (digital or D/A)	US-PGPUB; USPAT	OR	ON	2006/09/19 14:00
S74	787	S71 same S72 same digital	US-PGPUB; USPAT	OR	ON	2006/09/19 13:12
S75	55	S70 and S74	US-PGPUB; USPAT	OR	ON	2006/09/19 13:12
S76	68	S70 and S73	US-PGPUB; USPAT	OR	ON	2006/09/19 13:12
S77	860	S71 same S72 same (digital or A/D)	US-PGPUB; USPAT	OR	ON	2006/09/19 14:01
S78	66	S70 and S77	US-PGPUB; USPAT	OR	ON	2006/09/19 15:39
S79	23	"4785442"	US-PGPUB; USPAT	OR	ON	2006/09/19 16:03
S80	9	S77 and 369/53.23.ccls.	US-PGPUB; USPAT	OR	ON	2006/09/19 16:36
S81	1	10/769848	US-PGPUB; USPAT	OR	ON	2006/09/19 16:38
S82	578	(369/112.23).CCLS.	US-PGPUB; USPAT	OR	OFF	2006/09/19 16:39
S83	0	("42and(objectiveSAMEmeniscus)" .PN.	US-PGPUB; USPAT	OR	OFF	2006/09/19 16:39
S84	16	S82 and (objective SAME meniscus)	US-PGPUB; USPAT	OR	ON	2006/09/19 16:40
S85	456	(369/44.25).CCLS.	US-PGPUB; USPAT	OR	OFF	2006/09/20 10:17
S86	63028	(track\$5 or focus\$5) near2 (error or signal)	US-PGPUB; USPAT	OR	ON	2006/09/29 09:24
S87	421	S85 and S86	US-PGPUB; USPAT	OR	ON	2006/09/20 07:59
S88	697682	upcount\$5 or downcount\$5 or counter or up/down or duty	US-PGPUB; USPAT	OR	ON	2006/09/20 08:00
S89	132	S87 and S88	US-PGPUB; USPAT	OR	ON	2006/09/20 08:00
S90	4201902	compar\$4 or referenc\$4 or bias\$3	US-PGPUB; USPAT	OR	ON	2006/09/20 08:01
S91	130	S89 and S90	US-PGPUB; USPAT	OR	ON	2006/09/20 08:02

## EAST Search History

S92	1321	S86 same S88 same S90	US-PGPUB; USPAT	OR	ON	2006/09/20 08:02
S93	38	S85 and S92	US-PGPUB; USPAT	OR	ON	2006/09/20 08:02
S94	7	("5179545").URPN.	USPAT	OR	ON	2006/09/20 08:25
S95	2128	((discriminat\$3) AND (disc or disk or medium)).ti.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/09/20 09:36
S96	10	S85 and S95	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/09/20 09:36
S97	20	S85 and ((up near2 down) near2 count\$4)	US-PGPUB; USPAT	OR	ON	2006/09/20 12:48
S98	2	10/769987	US-PGPUB; USPAT	OR	ON	2006/09/20 14:34
S99	720	(369/59.25).CCLS.	US-PGPUB; USPAT	OR	OFF	2006/09/20 14:34
S100	1774	(369/275.3).CCLS.	US-PGPUB; USPAT	OR	OFF	2006/09/20 14:34
S101	1	("5686820").PN.	US-PGPUB; USPAT	OR	OFF	2006/09/29 11:12
S102	563	track\$3 ADJ2 balance	US-PGPUB; USPAT	OR	ON	2006/09/29 14:50
S103	254	S102 and count\$3	US-PGPUB; USPAT	OR	ON	2006/09/29 11:13
S104	14949	(up and down) near count\$3	US-PGPUB; USPAT	OR	ON	2006/09/29 11:56
S105	7	S102 and S104	US-PGPUB; USPAT	OR	ON	2006/09/29 11:47
S107	540425	track\$3	US-PGPUB; USPAT	OR	ON	2006/09/29 11:57
S108	25	S102 same count\$3	US-PGPUB; USPAT	OR	ON	2006/09/29 12:01
S109	3	("4817069"   "4899325"   "5710720").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2006/09/29 14:07
S110	2	("5991248").URPN.	USPAT	OR	ON	2006/09/29 14:07

## EAST Search History

S11 1	94	S102 and "369".clas.	US-PGPUB; USPAT	OR	ON	2006/09/29 14:51
S11 2	43	S111 and count\$3	US-PGPUB; USPAT	OR	ON	2006/09/29 14:58
S11 4	1	("5327407").PN.	US-PGPUB; USPAT	OR	OFF	2006/10/02 09:08
S11 5	6	("4796246"   "4853918"   "4866688"   "5121370"   "5140573"   "5163034").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2006/10/02 09:08
S11 6	6	("5327407").URPN.	USPAT	OR	ON	2006/10/02 09:15
S11 7	457	(369/44.25).CCLS.	US-PGPUB; USPAT	OR	OFF	2006/10/02 09:15
S11 8	1030	(369/44.32).CCLS.	US-PGPUB; USPAT	OR	OFF	2006/10/02 09:15
S11 9	515	(369/44.35).CCLS.	US-PGPUB; USPAT	OR	OFF	2006/10/02 09:16
S12 0	1750	S117 or S118 or S119	US-PGPUB; USPAT	OR	ON	2006/10/02 09:17
S12 1	2176126	duty or count\$5 or downcount\$5 or upcount\$5 or (up adj2 count\$3) or (down adj2 count\$3)	US-PGPUB; USPAT	OR	ON	2006/10/02 09:18
S12 2	824	S120 and S121	US-PGPUB; USPAT	OR	ON	2006/10/02 09:18
S12 3	48340	track\$4 near2 (error or signal)	US-PGPUB; USPAT	OR	ON	2006/10/02 09:18
S12 4	5968	S121 same S123	US-PGPUB; USPAT	OR	ON	2006/10/02 09:56
S12 5	290	S120 and S124	US-PGPUB; USPAT	OR	ON	2006/10/02 09:56
S12 6	66	S124 same balanc\$3	US-PGPUB; USPAT	OR	ON	2006/10/02 09:22
S12 7	6	S120 and S126	US-PGPUB; USPAT	OR	ON	2006/10/02 09:22
S12 8	209	S125 and digital	US-PGPUB; USPAT	OR	ON	2006/10/02 09:55
S12 9	956	S124 same digital	US-PGPUB; USPAT	OR	ON	2006/10/02 09:56
S13 0	54	S120 and S129	US-PGPUB; USPAT	OR	ON	2006/10/02 14:37